

Chariton County, Missouri  
Chemical Properties of the Soils

(Absence of an entry indicates that data were not estimated.)

Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
10B2:								
LAGONDA-----	0-5	8.0-18	---	5.6-7.3	0	0	0	0
	5-26	16-25	---	5.6-7.8	0	0	0	0
	26-60	14-23	---	6.6-7.8	0	0	0	0
11C2:								
LAGONDA-----	0-9	14-18	---	5.6-7.3	0	0	0	0
	9-60	16-25	---	6.1-7.8	0	0	0	0
12B2:								
BEVIER-----	0-8	25-30	---	5.6-7.3	---	---	---	---
	8-24	30-50	---	5.1-7.3	---	---	---	---
	24-60	25-35	---	5.1-7.3	---	---	---	---
15B:								
GRUNDY-----	0-8	8.0-18	---	5.6-7.3	0	0	0	0
	8-15	16-24	---	5.6-6.5	0	0	0	0
	15-48	20-26	---	5.1-7.3	0	0	0	0
	48-60	14-19	---	5.6-7.3	0	0	0	0
16:								
CRESTMEDIA-----	0-8	10-15	---	5.6-7.3	0	0	0	0
	8-14	10-18	---	5.1-7.3	0	0	0	0
	14-34	35-45	---	5.1-6.5	0	0	0	0
	34-53	20-30	---	5.1-7.3	0	0	0	0
	53-74	15-30	---	5.6-7.3	0	0	0	0
19C2:								
MENFRO-----	0-4	10-16	---	5.1-7.3	---	---	---	---
	4-36	15-20	---	5.1-7.3	---	---	---	---
	36-60	5.0-10	---	5.6-7.3	---	---	---	---

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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
19F: MENFRO-----	0-7	10-16	---	5.1-7.3	---	---	---	---
	7-12	15-20	---	5.1-7.3	---	---	---	---
	12-60	15-20	---	5.1-7.3	---	---	---	---
20A: SHANNONDALE-----	0-9	15-25	---	5.1-7.3	0	0	0	0
	9-17	15-30	---	4.5-7.3	0	0	0	0
	17-58	25-35	---	4.5-7.3	0	0	0	0
	58-75	15-25	---	4.5-7.3	0	0	0	0
20C2: SHANNONDALE-----	0-9	15-25	---	5.1-7.3	0	0	0	0
	9-17	15-30	---	4.5-7.3	0	0	0	0
	17-58	25-35	---	4.5-7.3	0	0	0	0
	58-75	15-25	---	4.5-7.3	0	0	0	0
21C2: KNOX-----	0-6	18-20	---	5.6-7.3	---	---	---	---
	6-55	12-22	---	5.6-7.3	---	---	---	---
	55-70	8.0-16	---	6.1-7.3	---	---	---	---
22F3: KNOX-----	0-3	18-20	---	5.6-7.3	---	---	---	---
	3-50	12-22	---	5.6-7.3	---	---	---	---
	50-60	8.0-16	---	6.1-7.3	---	---	---	---

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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
23B2:								
HIGGINSVILLE-----	0-6	13-20	---	5.6-7.3	---	---	---	---
	6-10	---	---	5.1-6.5	---	---	---	---
	10-30	---	---	5.1-6.5	---	---	---	---
	30-60	---	---	5.1-6.5	---	---	---	---
23C2:								
HIGGINSVILLE-----	0-7	13-20	---	5.6-7.3	---	---	---	---
	7-12	---	---	5.1-6.5	---	---	---	---
	12-30	---	---	5.1-6.5	---	---	---	---
	30-60	---	---	5.1-6.5	---	---	---	---
25B:								
WAKENDA-----	0-14	12-22	---	5.6-7.3	0	0	0	0
	14-52	20-30	---	5.6-7.3	0	0	0	0
	52-60	10-20	---	5.6-7.3	0	0	0	0
25C2:								
WAKENDA-----	0-12	12-22	---	5.6-7.3	0	0	0	0
	12-50	20-30	---	5.6-7.3	0	0	0	0
	50-60	10-20	---	5.6-7.3	0	0	0	0
26B:								
ARMSTRONG-----	0-18	20-25	---	5.6-7.3	---	---	---	---
	18-52	41-50	---	4.5-6.5	---	---	---	---
	52-60	30-35	---	5.1-7.8	---	---	---	---
26C2:								
ARMSTRONG-----	0-7	20-25	---	5.6-7.3	---	---	---	---
	7-33	41-50	---	4.5-6.5	---	---	---	---
	33-60	30-35	---	5.1-8.4	---	---	---	---

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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
26D2: ARMSTRONG-----	0-5	20-25	---	5.6-7.3	---	---	---	---
	5-51	41-50	---	4.5-6.5	---	---	---	---
	51-60	30-35	---	5.1-7.8	---	---	---	---
27D3: ARMSTRONG-----	0-6	30-35	---	5.6-7.3	---	---	---	---
	6-50	41-50	---	4.5-6.5	---	---	---	---
	50-60	30-35	---	5.1-7.8	---	---	---	---
28C: KESWICK-----	0-8	20-25	---	4.5-7.3	---	---	---	---
	8-40	---	30-50	4.5-6.0	---	---	---	---
	40-60	30-36	---	4.5-7.8	0-15	---	---	---
31F: WINNEGAN-----	0-7	10-15	---	4.5-7.3	---	---	---	---
	7-31	18-24	---	4.5-6.5	---	---	---	---
	31-64	18-24	---	7.4-8.4	1-5	---	---	---
36D2: GOSPORT-----	0-3	15-20	---	5.1-7.3	0	0	0	0
	3-33	---	30-50	3.6-5.5	0	0	0	0
	33-60	---	---	---	---	---	---	---
36F: GOSPORT-----	0-5	15-20	---	5.1-7.3	0	0	0	0
	5-36	---	30-50	3.6-5.5	0	0	0	0
	36-60	---	---	---	---	---	---	---

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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
37D2:								
NEWCOMER-----	0-7	15-30	---	5.6-7.8	0	0	0	0
	7-27	15-25	---	5.1-7.3	0	0	0	0
	27-34	15-35	---	5.1-7.3	0	0	0	0
	34-50	---	---	---	---	---	---	---
	50-60	---	---	---	---	---	---	---
37F:								
NEWCOMER-----	0-9	15-30	---	5.6-7.8	0	0	0	0
	9-29	15-25	---	5.1-7.3	0	0	0	0
	29-35	15-35	---	5.1-7.3	0	0	0	0
	35-51	---	---	---	---	---	---	---
	51-61	---	---	---	---	---	---	---
40F:								
PUTCO-----	0-12	25-30	---	6.6-8.4	0	0	0	0
	12-60	25-30	---	7.4-8.4	0	0	0	0
42F:								
SCHULINE-----	0-10	17-25	---	5.6-8.4	0-20	0	0	0
	10-16	11-22	---	7.4-8.4	5-35	0	0	0
	16-60	11-22	---	7.4-8.4	5-35	0	0	0
PITS-----	0-60	---	---	---	---	---	0	---
47:								
DOCKERY-----	0-5	8.0-12	---	5.6-7.3	---	---	---	---
	5-60	8.0-14	---	5.6-7.8	---	---	---	---

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Map symbol and soil name	Depth	Cation exchange capacity	Effective cation exchange capacity	Soil reaction	Calcium carbon- ate	Gypsum	Salinity	Sodium adsorp- tion ratio
	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
50: BLACKOAR-----	0-11	25-30	---	5.6-7.3	---	---	---	---
	11-48	20-25	---	5.6-7.3	---	---	---	---
	48-65	25-30	---	5.6-7.3	---	---	---	---
53: COLO-----	0-16	25-30	---	5.6-7.3	0	0	0	0
	16-60	36-41	---	5.6-7.3	0	0	0	0
54: ZOOK-----	0-8	36-41	---	5.6-7.3	0	0	0	0
	8-40	36-41	---	5.6-7.8	0	0	0	0
	40-75	30-36	---	5.6-7.8	0	0	0	0
56: TRIPLETT-----	0-7	10-15	---	5.1-7.3	0	0	0	0
	7-14	10-18	---	4.5-7.3	0	0	0	0
	14-33	35-45	---	4.5-6.5	0	0	0	0
	33-53	30-40	---	4.5-6.5	0	0	0	0
	53-60	15-30	---	5.1-6.5	0	0	0	0
60: PORTAGE-----	0-9	24-40	---	5.1-7.3	---	---	---	---
	9-44	---	30-42	4.5-5.5	---	---	---	---
	44-60	---	30-42	4.5-6.0	---	---	---	---
61: CARLOW-----	0-13	22-29	---	5.1-7.3	---	---	---	---
	13-60	---	23-31	4.5-6.0	---	---	---	---

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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
62: CARLOW-----	0-13	22-29	---	5.1-7.3	---	---	---	---
	13-60	---	23-31	4.5-6.0	---	---	---	---
64: TINA-----	0-12	20-23	---	5.6-7.3	0	0	0	0
	12-41	30-40	---	5.6-7.3	0	0	0	0
	41-60	20-30	---	5.6-7.3	0	0	0	0
66C2: GIFFORD-----	0-3	15-22	---	5.1-7.3	0	0	0	0
	3-30	18-26	---	5.1-7.3	0	0	0	0
	30-60	15-22	---	5.6-7.3	0	0	0	0
68: TUSKEEGO-----	0-8	25-30	---	5.1-7.3	0	0	0	0
	8-24	20-25	---	5.1-6.5	0	0	0	0
	24-46	30-36	---	5.1-6.5	0	0	0	0
	46-60	20-30	---	5.6-6.5	0	0	0	0
70: SPEED-----	0-15	12-17	---	5.1-7.3	0	0	0	0
	15-27	7.0-14	---	4.5-7.3	0	0	0	0
	27-38	12-17	---	4.5-7.3	0	0	0	0
	38-60	16-21	---	4.5-7.3	0	0	0	0
72: TICE-----	0-11	17-22	---	6.1-7.8	0	0	0	0
	11-60	16-23	---	5.6-7.8	0	0	0	0

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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
73:								
TICE-----	0-11	20-27	---	6.1-7.8	0	0	0	0
	11-60	16-23	---	5.6-7.8	0	0	0	0
78:								
LEVASY-----	0-20	25-35	---	7.4-8.4	1-5	0	0	0
	20-29	20-30	---	7.4-8.4	1-5	0	0	0
	29-60	8.0-16	---	7.4-8.4	1-5	0	0	0
81:								
HAYNIE-----	0-9	15-20	---	6.6-8.4	0-25	0	0	0
	9-60	15-20	---	7.4-8.4	5-30	0	0	0
82:								
SARPY-----	0-7	2.0-8.0	---	6.6-8.4	0-15	---	---	---
	7-60	2.0-8.0	---	6.6-8.4	0-15	---	---	---
83:								
LANDES-----	0-12	6.0-16	---	5.6-8.4	0	0	0	0
	12-34	3.0-13	---	5.6-8.4	0-10	0	0	0
	34-60	3.0-13	---	5.6-8.4	0-20	0	0	0
84:								
HAYNIE-----	0-9	15-20	---	6.6-8.4	0-25	0	0	0
	9-60	15-20	---	7.4-8.4	5-30	0	0	0
WALDRON-----	0-6	22-30	---	6.6-7.8	0-1	0	0	0
	6-52	20-30	---	7.4-8.4	1-5	0	0	0
	52-60	10-20	---	7.4-8.4	1-5	0	0	0



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	In	meq/100 g	meq/100 g	pH	Pct	Pct	mmhos/cm	
85: WALDRON-----	0-4	22-30	---	6.6-7.8	0-1	0	0	0
	4-48	20-30	---	7.4-8.4	1-5	0	0	0
	48-60	10-20	---	7.4-8.4	1-5	0	0	0
86: PARKVILLE-----	0-4	---	---	6.6-8.4	---	---	0	---
	4-20	---	---	6.6-8.4	---	---	0	---
	20-60	---	---	7.4-8.4	---	---	0	---
87: MODALE-----	0-22	15-20	---	7.4-8.4	5-30	0	0	0
	22-60	41-55	---	7.4-8.4	5-30	0	0	0
88: COTTER-----	0-16	10-16	---	5.6-7.8	0	0	0	0
	16-46	12-20	---	5.1-7.3	0	0	0	0
	46-60	8.0-15	---	5.1-7.3	0	0	0	0
89: NORBORNE-----	0-8	---	---	5.6-7.3	---	---	0	---
	8-40	---	---	5.6-7.3	---	---	0	---
	40-65	---	---	5.6-7.3	---	---	0	---
93: BOOKER-----	0-13	30-45	---	5.6-7.3	---	---	---	---
	13-48	40-60	---	5.6-7.3	---	---	---	---
	48-60	35-50	---	5.6-7.3	---	---	---	---

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